



Photon Curer



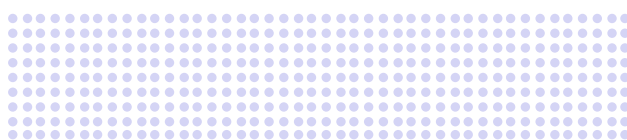


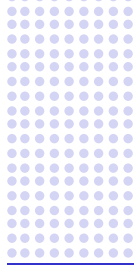
The **REVARON Photon Curer** Instrument with Heated Platform is capable of providing instantly uniform exposure of high energy photons for use with processes such as curing, patterning, etching and crosslinking. Ultraviolet light has high photon energy and facilitate breaking of bonds of common atmospheric gases present in the air. And these unstable atoms bind with other atoms in a chain reaction that allows rearrangement of atoms within the exposed material. Such process alters the properties of the material (e.g. hardening by polymerisation reaction, crosslinking in the photoresist and polymerisation of resin for hardening). Importantly, this is achieved without any damage to the sample or underlying materials/coatings. This versatile instrument can be used with wide range of materials and substrates facilitating it's use in endless applications. Most preferred by the industry and universities due to dry process that completely eliminates the use of chemicals. This equipment can be internally equipped with UV reflective mirrors for achieving greater uniformity of illumination over the substrates and objects.



PHOTON CURER

- Curing
- Patterining
- Etching
- Crosslinking
- Stripping
- Hardbaking



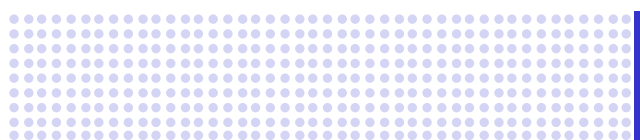


Applications

1. UV Curing, Etching, Patterning and Crosslinking.
2. Photoresist ashing, etching, stripping, descum and hard baking.
3. Surface modification and activation.
4. Resin Curing.
5. Printed Circuit Boards.
6. Bonding of LCD panels.
7. Activate PDMS, Polymers, Microfluid, Organic Materials.
8. Crosslink Polymers and Organic Materials.

Key Features

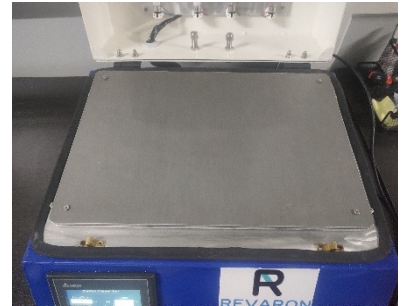
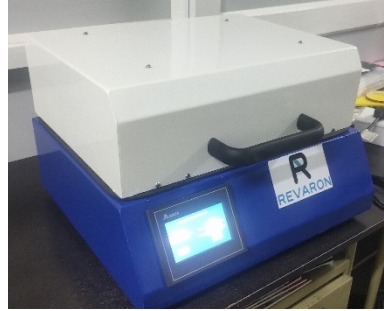
1. Bright LCD display and Touch Screen Operation.
2. Built-in software.
3. Programmable timer, irradiance and temperature control.
4. Added Smart Safety interlocks for UV light and temperature.
5. Bench-top instrument.
6. Real time monitoring of Substrate Temperature.
7. Buzzer and Light Indication on completion of the process.
8. Enclosed UV exposure.
9. Equipped with OZONE filter (no generation of OZONE)



Features and Specifications

- | Display
Colour LCD 4"
- | UV Light Source
Quartz UV Grid Lamp
- | Emission Peak Wavelengths
185 nm & 232nm (with ozone filter)
- | Irradiation area
300mm x 300mm
- | Adjustable irradiation distance
5mm to 20mm
- | UV lamp lifetime
Approx. 2500 Hrs, 10 years standard use
- | Average light intensity at a distance of 3-5mm from the UV lamp
25~35 mW/cm²
- | Power Supply
100-240 V, 47-63 Hz, Fused at 5 A
- | Continuous use time
1 Hour
- | Safety features
Interlock for UV emission, Max Temperature auto power cut-off, Manually terminated by safety button, Drawer safety interlock,
- | Temperature Range
25 °C to 200 °C
- | Programmable Timer Range
1s to 3600s, with countdown indication
- | Air/Gas inlet/outlet
10mm diameter
- | Sample loading/unloading
Drawer type sample stage
- | External dimensions
430mm x 380mm x 320mm (LxWxH)
- | Weight
≈ 10 Kgs
- | Material
Stainless steel (resistant to acid and alkaline materials, anti-corrosion). Coated Outside.
- | Additional Accessories
 - 1. Substrate Holders**
 - 2. Rotating Stage for enhanced uniformity**
 - 3. UV Internal Reflective Mirrors**

"We can customise this product in accordance with your application, requirements including ergonomic design"



Added Benefits

1. Avoid use of potentially toxic chemicals or solvents.
2. There is no need for pump (vacuum) and additional gas supply.
3. Low charging damage on substrates (common problem with treatment/cleaning that involves ion bombardment).
4. No hazardous effluent (associated with wet cleaning or treatment).

Sales and Support

Tele: **+91 7676564755**

Email: **info@revaron.com**

Address: **304/6, Shed K5 and K7, Seetharam Industrial Estate,
Jalahalli, Bangalore 560013**

Website: **www.revaron.com**

REVARON products are shipped worldwide including one-year warranty as standard.

